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Inventor: **NAKAI KENJI;**  
**HIGASHIMOTO KOJI;**  
**HIRONAKA KENSUKE;**  
**HAYAKAWA TAKUMI;**  
**KOMAKI AKIO;**  
**NAKANAGA TAKEFUMI;**  
**TANIGUCHI MASATOSHI;**

Assignee: **SHIN KOBE ELECTRIC MACH CO LTD.**  
**OTSUKA CHEM CO LTD**  
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Published / Filed: **1992-07-28 / 1990-11-30**Application Number: **JP1990000333743**IPC Code: **H01M 10/40; H01M 4/02;**Priority Number: **1990-11-30 JP1990000333743**

Abstract:

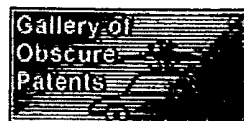
**PURPOSE:** To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

**CONSTITUTION:** On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented.

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Family: **None**Other Abstract **None**

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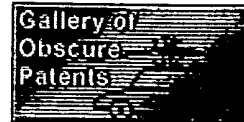
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(19)

(11) Publication number:

**04**

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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **02333743**(51) Intl. Cl.: **H01M 10/40 H01M 4/02**(22) Application date: **30.11.90**

(30) Priority:	(71) Applicant: <b>SHIN KOBE ELECTRIC LTD.</b> <b>OTSUKA CHEM CO. LT</b>
(43) Date of application publication: <b>28.07.92</b>	(72) Inventor: <b>NAKAI KENJI</b> <b>HIGASHIMOTO KOJI</b> <b>HIRONAKA KENSUKE</b> <b>HAYAKAWA TAKUMI</b> <b>KOMAKI AKIO</b> <b>NAKANAGA TAKEFUM</b> <b>TANIGUCHI MASATOSH</b>
(84) Designated contracting states:	(74) Representative:

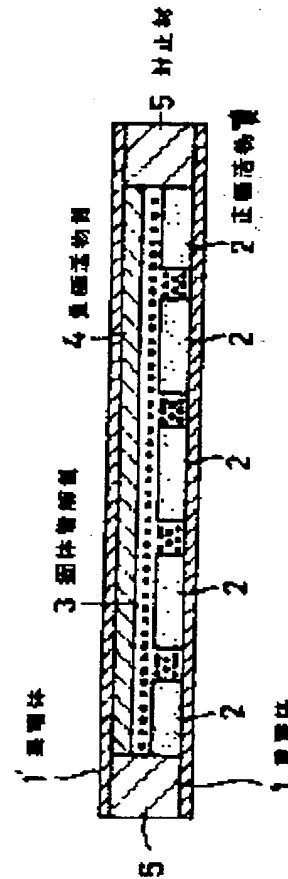
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